

FIG. 1

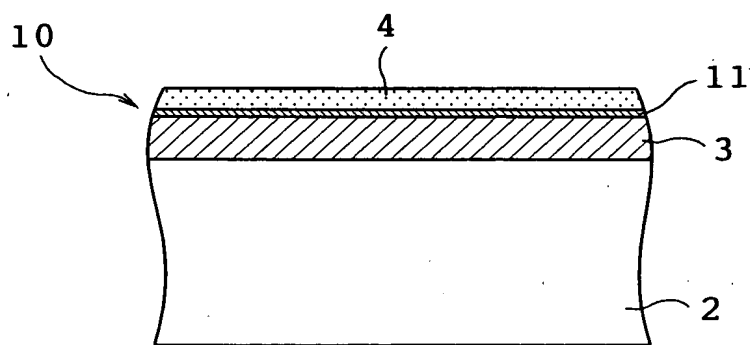


FIG. 2

COMPOSITION OF BEARING (VOLUME %)															
	BEARING ALLOY	BONDING LAYER					RESIN SURFACE LAYER								
		BASE RESIN		SOLID LUBRICANT		PTFE	BASE RESIN			SOLID LUBRICANT			OTHER ADDITIVE		
		PAI	PI	MoS ₂	Gr		PAI	EP	PBI	MoS ₂	Gr	PTFE	Cu	Si ₃ N ₄	
EXAMPLE	1	Cu										20	80		
	2	Cu										60	40		
	3	Cu										30	70		
	4	Cu										57	40		3
	5	Cu										54	40		3
	6	Cu										39	40		1
	7	Cu	100									60	40		
	8	Cu	100									30	70		
	9	Cu		100								39	40		1
	10	Cu	60		40							60	40		
	11	Cu	60			40						60	40		
	12	Cu	60				40					80	20		
COMPARATIVE EXAMPLE	13	Cu						100							
	14	Cu							100						
	15	Cu								60			40		
	16	Cu								30			70		
	17	Cu								57			40		3
	18	Cu								57				40	3
	19	Cu								54			40		3
	20	Cu								39			40		1
	21	Cu										100			

FIG. 3A

	RESULTS OF TEST				
	COEFFICIENT OF FRICTION	AMOUNT OF WEAR (μm)	SEIZURE LOAD (MPa)	VOLUMETRIC DECREASE (mm^3)	
EXAMPLE	1	0.03	15	21	5.30
	2	0.05	8	24	3.46
	3	0.03	9	27	4.80
	4	0.04	4	27	3.54
	5	0.04	1	30	4.56
	6	0.03	4	30	4.29
	7	0.05	8	27	2.74
	8	0.03	9	27	4.26
	9	0.03	4	30	3.65
	10	0.05	8	33	1.96
	11	0.05	7	33	2.08
	12	0.05	8	33	2.76
COMPARATIVE EXAMPLE	13	0.10	12	15	5.76
	14	0.10	13	15	5.69
	15	0.05	17	21	3.56
	16	0.03	20	24	6.00
	17	0.05	6	24	4.21
	18	0.05	6	24	4.76
	19	0.04	2	24	5.90
	20	0.04	7	27	5.01
	21	0.12	10	15	4.89

FIG. 3B